



# SPYWOLF

## Security Audit Report



Completed on  
**March 6, 2023**

@SPYWOLFNETWORK



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SPYWOLF.CO





# OVERVIEW

This audit has been prepared for **SamuraiAI** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





# TABLE OF CONTENTS

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Project Description	01
Contract Information	02
Current Stats	03
Vulnerability Check	04
Threat Levels	05
Found Threats	06-A/06-B
Good Practices	07
Tokenomics	08
Team Information	09
Website Analysis	10
Social Media & Online Presence	11
About SPYWOLF	12
Disclaimer	13



# SamuraiAI



## PROJECT DESCRIPTION

### **According to their whitepaper:**

The Samurai smart contract is a cutting-edge solidity code designed to revolutionize the world of cryptocurrency trading. Its sophisticated algorithm can identify all-time highs and higher highs with a high degree of accuracy. These higher highs will be determined by a complex and secure mathematical formula that ensures fair distribution of profits between high-profit gainers and future dip buyers.

**Release Date:** Launching in March, 2023

**Category:** AI

01



# CONTRACT INFO

Token Name  
Samurai

Symbol  
Samurai

Contract Address

0x968E56918D7974F3DDcbfF6353Bb52250fa8c9d8

Network

Binance Smart Chain  
TESTNET

Language

Solidity

Deployment Date

March 05, 2023

Verified?

Yes

Total Supply

1,000,000,000

Status

Not launched

## TAXES

Buy Tax

3%

Sell Tax

3%

\*Taxes can be changed in future



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# TOKEN TRANSFERS STATS

Transfer Count	TESTNET
Uniq Senders	TESTNET
Uniq Receivers	TESTNET
Total Amount	TESTNET
Median Transfer Amount	TESTNET
Average Transfer Amount	TESTNET
First transfer date	TESTNET
Last transfer date	TESTNET
Days token transferred	TESTNET

# SMART CONTRACT STATS

Calls Count	TESTNET
External calls	TESTNET
Internal calls	TESTNET
Transactions count	TESTNET
Uniq Callers	TESTNET
Days contract called	TESTNET
Last transaction time	TESTNET
Created	TESTNET
Create TX	TESTNET
Creator	TESTNET



# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed





# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

---

Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.





# FOUND THREATS

## High Risk

No high risk-level threats found in this contract.

## Medium Risk

No medium risk-level threats found in this contract.

## Low Risk

No low risk-level threats found in this contract.



# FOUND THREATS

## Informational

Owner can exclude address from fees.

Addresses excluded from fees are not subject to tax deduction.

```
function excludeFromFees(address account, bool excluded)
    external
    onlyOwner
{
    _isExcludedFromFees[account] = excluded;
}
```

Protocol wallet can initiate manual auto swap.

When auto swap is initiated, the contract will swap its tokens holdings into bnb and distribute it to the respective address.

```
function forceSwapProtocolFees() external {
    require(
        _msgSender() == _protocolWallet,
        "Only protocol wallet can call this method"
    );

    _swapFees();
}
```



# FOUND THREATS

## Informational

When user sell on current all time high, additional 10% fee will be applied. The additional 10% fees are added as buy reward incentive in case of new all time low. If new all time low is never reached, tokens deducted from all time high fees will remain unreachable.

```
uint256 public constant SELL_PROTOCOL_FEE = 3;
uint256 public constant ATH_SELL_PROTOCOL_FEE = 10;
function _transfer(
    address from,
    address to,
    uint256 amount
) private {
    .....
    if (takeFee) {
        if (uniswapV2Pair == to) {
            if (samuraiModeEnabled && _isNewAth()) {
                // NOTE: If the price in the new ATH the first seller will pay the ATH fees
                uint256 calculatedAthFees = _calculateAthFees(amount);

                if (calculatedAthFees > 0) {
                    _recordAth(calculatedAthFees);
                    fees += calculatedAthFees;
                }
            }

            fees += amount.mul(SELL_PROTOCOL_FEE).div(100);
        }

        function _calculateAthFees(uint256 amount) private pure returns (uint256) {
            uint256 fees = amount.mul(ATH_SELL_PROTOCOL_FEE).div(100);

            return fees;
        }
        .....
    }

    function _recordAth(uint256 fees) private {
        feesAsIncentive += fees;
        lastAthPrice = _getRealtimePrice();
    }
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## SamuraiAI

### GOOD PRACTICES FOUND

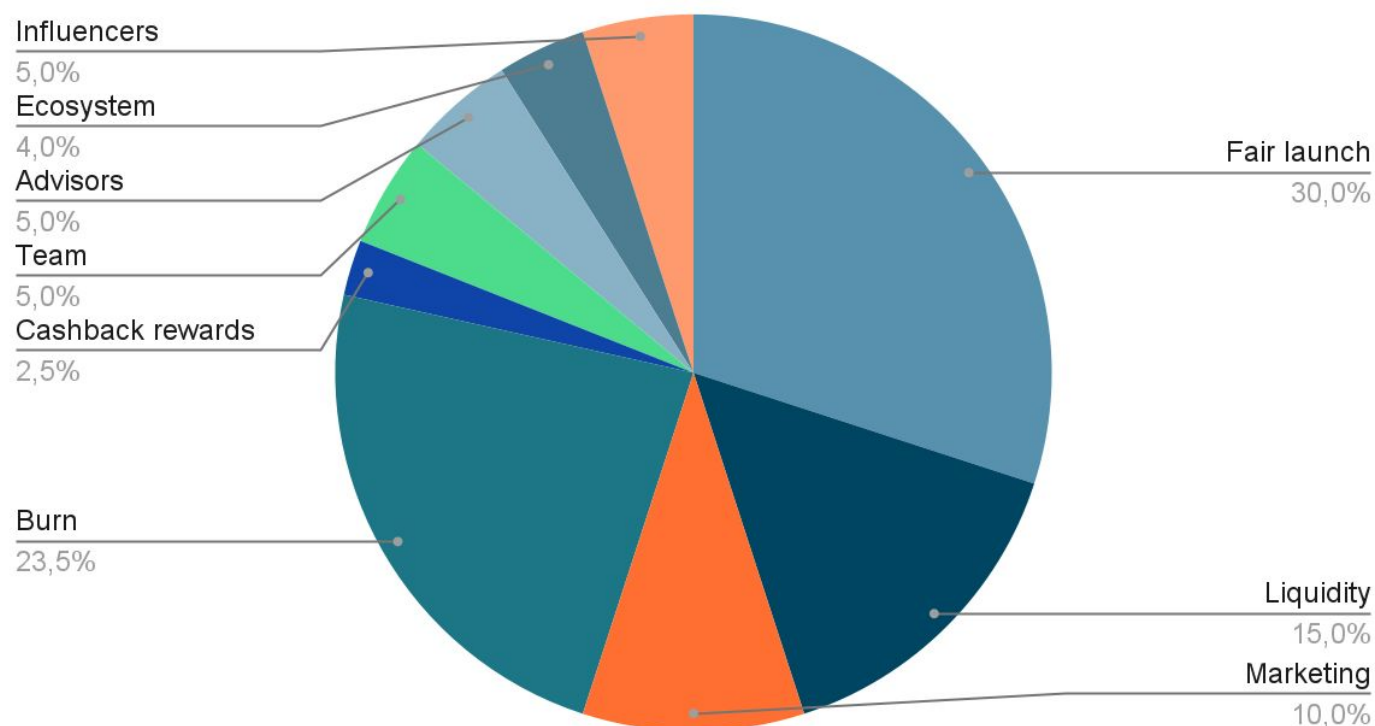
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics are based on the project's whitepaper and/or website:

- 30% - Fair launch
- 15% - Liquidity
- 10% - Marketing
- 23.5% - Burn
- 2.5% - Cashback rewards
- 5% - Team
- 5% - Advisors
- 4% - Ecosystem
- 5% - Influencers & Partnerships

### Tokens distribution



TOKENOMICS



# THE TEAM

! The team is anonymous

## KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





# WEBSITE

## Website URL

<https://samurai.tax/>

## Domain Registry

<https://www.namecheap.com/>

## Domain Expiration

Expires on 2024-02-24

## Technical SEO Test

Passed

## Security Test

Passed. SSL certificate present

## Design

Single page design,  
appropriate color scheme  
and graphics.

## Content

The information helps new  
investors understand what  
the product does right away.  
No grammar mistakes  
found.

## Whitepaper

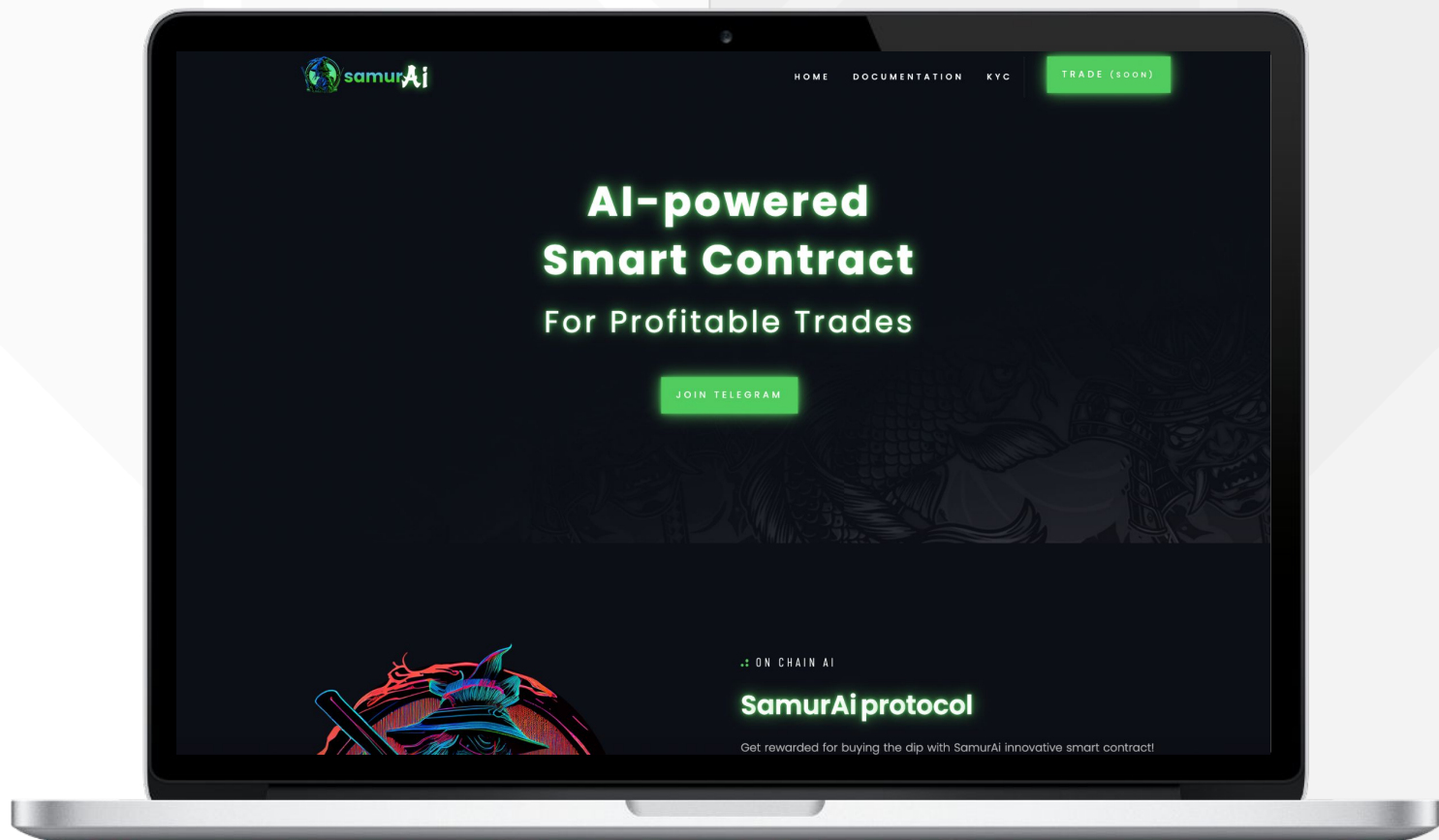
Explanatory information can  
be found in the project's  
documentation page.

## Roadmap

Yes, goals set without time  
frames.

## Mobile-friendly?

Yes



# samurai.tax





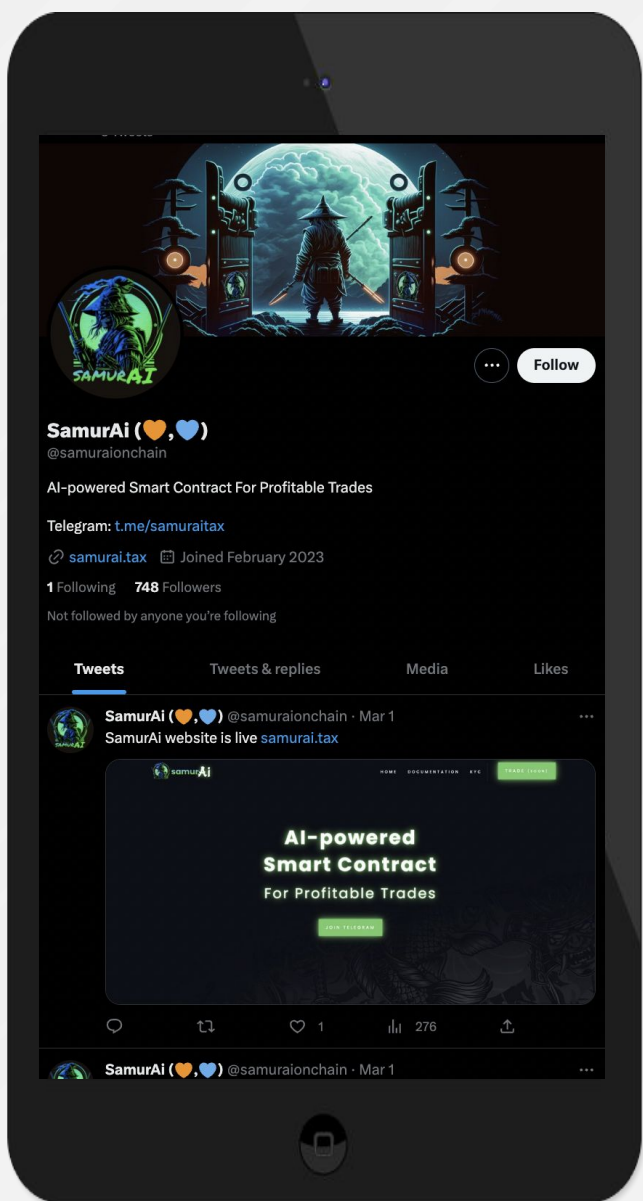
# SOCIAL MEDIA

## & ONLINE PRESENCE



ANALYSIS

Project's social media pages are active



Twitter

@samuraionchain

- 6 161 followers
- Posts daily
- Active



Discord

- Not available



Telegram

@samuraionchain

- 1205 members
- Active members
- Active mods



Medium

- Not available



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

## ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 400 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to  
[contact@spywolf.co](mailto:contact@spywolf.co) or  
[t.me/joe\\_SpyWolf](https://t.me/joe_SpyWolf)

## FIND US ONLINE



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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.